

## HIGH SPEED VIDEO FRAME BUFFER

## ABSTRACT OF THE DISCLOSURE

5 A memory circuit achieves much higher bandwidth and reduced power consumption by maintaining the maximum number of memory arrays open simultaneously. Circuit area is also saved by sharing bit line sense amplifiers between adjacent arrays. When selected, an array remains open until a different row in the same array or an array adjacent to it is selected. Thus, as long as access is made to an open row of every other array, access time and power are reduced by eliminating the need to  
10 turn arrays on and off.